

SITE NAME: LECCO RIDGE

BUILDER: GREENPARK HOMES

TYPE: JUNIPER 7

GFA: 3113

DATE: Dec-16

LO# 71362

WINTER NATURAL AIR CHANGE RATE 0.307

SUMMER NATURAL AIR CHANGE RATE 0.105

HEAT LOSS ΔT°F. 72

HEAT GAIN ΔT°F. 14

CSA-F280-12

ENERGYSTAR

ROOM USE	EXP. WALL	CLG. HT.	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	ENS-2				
			34	28	7	14	42	14	7	22				
			10	9	9	9	10	9	9	9				
FACTORS														
GRS.WALL AREA	LOSS	GAIN	340	252	63	126	420	126	63	198				
GLAZING	LOSS	GAIN												
NORTH	17.9	15.8	0	0	0	0	0	0	0	0	0	0	0	0
EAST	17.9	41.4	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH	17.9	24.8	0	0	0	0	0	0	0	0	0	0	0	0
WEST	17.9	41.4	40	714	1657	13	232	538	7	125	290	0	0	0
SKYLT.	30.6	101.2	0	0	0	0	0	0	0	0	0	0	0	0
DOORS	24.1	4.7	0	0	0	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL	2.6	0.5	300	785	152	225	589	114	56	147	28	93	243	47
NET EXPOSED BSMT WALL ABOVE GR	3.3	0.6	0	0	0	0	0	0	0	0	0	0	0	0
EXPOSED CLG	1.4	0.7	288	397	197	195	269	134	112	164	77	172	237	118
NO ATTIC EXPOSED CLG	2.2	1.1	0	0	0	0	0	0	0	0	0	0	0	0
EXPOSED FLOOR	2.2	0.4	0	0	0	0	0	0	0	0	0	0	0	0
BASEMENT/CRAWL HEAT LOSS			0	0	0	0	0	0	0	0	0	0	0	0
SLAB ON GRADE HEAT LOSS			0	0	0	0	0	0	0	0	0	0	0	0
SUB TOTAL HT LOSS			1896		1339		426		1535		2874		848	
SUB TOTAL HT GAIN				2006		1133		395		1635		3615		572
LEVEL FACTOR / MULTIPLIER	0.20	0.30				0.20	0.30		0.20	0.30		0.20	0.30	
AIR CHANGE HEAT LOSS			573		405		129		464		869		266	
AIR CHANGE HEAT GAIN				155		87		30		126		279		44
DUCT LOSS			0		0		0		0		0		0	
DUCT GAIN			0		0		0		0		0		0	
HEAT GAIN PEOPLE	240		2	480	1	240	0	0	1	240	1	240	0	0
HEAT GAIN APPLIANCES/LIGHTS				633		0		0		633		0		633
TOTAL HT LOSS BTU/H			2469		1744		555		2199		4117		1104	
TOTAL HT GAIN x 1.3 BTU/H			4256		1898		553		3767		6817		1935	

TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 7 MODEL

BUILDING: REVIEWED
SCOTT SHERRIFFS **APR 7, 2017**

PLANS EXAMINER **DATE**

Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton

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ROOM USE	EXP. WALL	CLG. HT.	LVDN	OFF	KT/FM	LAUN	WR	FOY	MUD					
			26	23	78	11	7	20	28					
			10	10	10	9	10	10	11					
FACTORS														
GRS.WALL AREA	LOSS	GAIN	260	230	780	99	70	200	308					
GLAZING	LOSS	GAIN												
NORTH	17.9	15.8	0	0	0	0	0	0	0	0	0	0	0	0
EAST	17.9	41.4	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH	17.9	24.8	34	607	842	0	0	0	0	0	0	0	0	0
WEST	17.9	41.4	0	0	0	0	0	0	0	0	0	0	0	0
SKYLT.	30.6	101.2	0	0	0	0	0	0	0	0	0	0	0	0
DOORS	24.1	4.7	0	0	0	0	0	0	0	0	0	0	0	0
NET EXPOSED WALL	2.6	0.5	226	591	114	183	479	93	669	1750	338	92	241	47
NET EXPOSED BSMT WALL ABOVE GR	3.3	0.6	0	0	0	0	0	0	0	0	0	0	0	0
EXPOSED CLG	1.4	0.7	0	0	0	0	0	0	0	0	0	0	0	0
NO ATTIC EXPOSED CLG	2.2	1.1	0	0	0	0	0	0	0	0	0	0	0	0
EXPOSED FLOOR	2.2	0.4	0	0	0	0	0	0	0	0	0	0	0	0
BASEMENT/CRAWL HEAT LOSS			0	0	0	0	0	0	0	0	0	0	0	0
SLAB ON GRADE HEAT LOSS			0	0	0	0	0	0	0	0	0	0	0	0
SUB TOTAL HT LOSS			1198		1318		3740		714		290		1348	
SUB TOTAL HT GAIN				956		1784		4940		331		205		736
LEVEL FACTOR / MULTIPLIER	0.30	0.55				0.30	0.55		0.30	0.55		0.30	0.55	
AIR CHANGE HEAT LOSS			659		725		2058		216		159		742	
AIR CHANGE HEAT GAIN				74		138		381		26		16		57
DUCT LOSS			0		0		0		0		0		0	
DUCT GAIN			0		0		0		0		0		0	
HEAT GAIN PEOPLE	240		0	0	0	1	240	0	0	0	0	0	0	0
HEAT GAIN APPLIANCES/LIGHTS				633		633		633		633		0		633
TOTAL HT LOSS BTU/H			1858		2043		5799		930		449		2090	
TOTAL HT GAIN x 1.3 BTU/H			2162		3320		8052		1598		287		1031	

TOTAL HEAT GAIN BTU/H:

41101

TONS: 3.43

LOSS DUE TO VENTILATION LOAD BTU/H: 2354

STRUCTURAL HEAT LOSS: 47233

TOTAL COMBINED HEAT LOSS BTU/H: 49586

SITE NAME: LECCO RIDGE
BUILDER: GREENPARK HOMES

TYPE: JUNIPER 7

DATE: Dec-16

GFA: 3113 LO# 71352

HEATING CFM 1316 COOLING CFM 1316
TOTAL HEAT LOSS 47,233 TOTAL HEAT GAIN 40,646
AIR FLOW RATE CFM 27.86 AIR FLOW RATE CFM 32.38

furnace pressure 0.6
furnace filter 0.05
a/c coil pressure 0.2
available pressure for s/a & r/a 0.35

~*AMANA
AMVC960804CNA 80 AFUE = 96.0 %
FAN SPEED LOW 1316 INPUT (BTU/H) = 80,000
MEDLOW 0 OUTPUT (BTU/H) = 76,800
MEDIUM 1389 DESIGN CFM = 1316
MEDIUM HIGH 0 CFM @ 6" E.S.P.
HIGH 1396 TEMPERATURE RISE 54 °F

RUN COUNT	4th	3rd	2nd	1st	Bas
S/A	0	0	12	8	5
R/A	0	0	4	2	1

All S/A diffusers 4"x10" unless noted otherwise on layout.

All S/A runs 5"Ø unless noted otherwise on layout.

RUN #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
ROOM NAME	MBR	ENS	WIC	BED-2	BED-3	BED-4	BATH	BED-3	ENS	MBR	ENS-2	OFF	LV/DN	KT/FM	KT/FM	KT/FM	LAUN	W/R	FOY	MUD	BAS	BAS	BAS	BAS
RM LOSS MBH	1.23	0.87	0.55	2.20	2.06	1.10	0.73	2.06	0.87	1.23	1.58	2.04	1.86	1.93	1.93	1.93	0.93	0.45	2.09	2.13	3.49	3.49	3.49	3.49
CFM PER RUN HEAT	34	24	15	61	57	31	20	57	24	34	44	57	52	54	54	54	26	13	58	59	97	97	97	97
RM GAIN MBH	2.13	0.95	0.55	3.77	3.41	1.94	0.47	3.41	0.95	2.13	2.23	3.32	2.16	2.68	2.68	2.68	1.60	0.29	1.03	1.35	0.18	0.18	0.18	0.18
CFM PER RUN COOLING	69	31	18	122	110	63	15	110	31	69	72	108	70	87	87	87	52	9	33	44	6	6	6	6
ADJUSTED PRESSURE	0.17	0.17	0.17	0.15	0.15	0.17	0.17	0.15	0.17	0.17	0.17	0.15	0.17	0.16	0.16	0.16	0.17	0.17	0.17	0.17	0.16	0.16	0.16	0.16
ACTUAL DUCT LGH	57	29	49	43	41	21	50	46	27	47	49	29	7	44	31	23	42	22	34	39	40	16	12	26
EQUIVALENT LENGTH	140	170	120	130	140	190	130	170	180	130	120	110	130	150	110	130	130	160	120	110	130	120	120	100
TOTAL EFFECTIVE LENGTH	197	199	169	173	181	211	180	216	207	177	169	139	137	194	141	153	172	182	154	149	170	136	132	126
ADJUSTED PRESSURE	0.09	0.09	0.1	0.09	0.08	0.08	0.1	0.07	0.08	0.1	0.1	0.11	0.13	0.08	0.11	0.11	0.1	0.09	0.11	0.12	0.1	0.12	0.12	0.13
ROUND DUCT SIZE	5	4	4	6	6	5	4	6	4	5	5	6	5	6	5	5	4	4	4	4	6	5	5	5
HEATING VELOCITY (ft/min)	250	275	172	311	291	228	229	291	275	250	323	291	382	275	396	396	298	149	665	677	495	712	712	712
COOLING VELOCITY (ft/min)	507	356	207	622	561	463	172	561	356	507	529	551	514	444	639	639	597	103	379	505	31	44	44	44
OUTLET GRILL SIZE	3X10	3X10	3X10	4X10	4X10	3X10	3X10	4X10	3X10	3X10	3X10	4X10	3X10	4X10	3X10	3X10	3X10	3X10	3X10	3X10	4X10	3X10	3X10	3X10
TRUNK	A	B	B	D	C	D	D	C	D	B	D	C	D	A	B	B	A	C	C	A	A	B	D	C

RUN #	25
ROOM NAME	BAS
RM LOSS MBH	3.49
CFM PER RUN HEAT	97
RM GAIN MBH	0.18
CFM PER RUN COOLING	6
ADJUSTED PRESSURE	0.16
ACTUAL DUCT LGH	28
EQUIVALENT LENGTH	130
TOTAL EFFECTIVE LENGTH	158
ADJUSTED PRESSURE	0.1
ROUND DUCT SIZE	6
HEATING VELOCITY (ft/min)	495
COOLING VELOCITY (ft/min)	31
OUTLET GRILL SIZE	4X10
TRUNK	B

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SUPPLY AIR TRUNK SIZE																RETURN AIR TRUNK SIZE							
	TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT			VELOCITY (ft/min)		TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT		VELOCITY (ft/min)		TRUNK CFM	STATIC PRESS.	ROUND DUCT	RECT DUCT		VELOCITY (ft/min)		
TRUNK A	270	0.08	8.6	8	x	8	608	TRUNK G	0	0.00	0	0	x	8	0	TRUNK O	0	0.06	0	0	x	8	0
TRUNK B	645	0.08	11.9	16	x	8	726	TRUNK H	0	0.00	0	0	x	8	0	TRUNK P	0	0.06	0	0	x	8	0
TRUNK C	339	0.07	9.7	12	x	8	509	TRUNK I	0	0.00	0	0	x	8	0	TRUNK Q	0	0.06	0	0	x	8	0
TRUNK D	668	0.07	12.5	18	x	8	668	TRUNK J	0	0.00	0	0	x	8	0	TRUNK R	0	0.06	0	0	x	8	0
TRUNK E	0	0.00	0	0	x	8	0	TRUNK K	0	0.00	0	0	x	8	0	TRUNK S	0	0.06	0	0	x	8	0
TRUNK F	0	0.00	0	0	x	8	0	TRUNK L	0	0.00	0	0	x	8	0	TRUNK T	0	0.06	0	0	x	8	0
																TRUNK U	0	0.06	0	0	x	8	0
																TRUNK V	0	0.06	0	0	x	8	0
																TRUNK W	0	0.06	0	0	x	8	0
																TRUNK X	1141	0.06	15.8	30	x	8	685
																TRUNK Y	645	0.06	12.8	20	x	8	581
																TRUNK Z	310	0.06	9.7	12	x	8	465
																DROP	1316	0.06	16.7	24	x	12	658
RETURN AIR #	1	2	3	4	5	6									BR								
	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
AIR VOLUME	155	185	175	90	155	335	0	0	0	0	0	0	0	0	221								
PLENUM PRESSURE	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15								
ACTUAL DUCT LGH.	63	52	52	52	46	23	1	1	1	1	1	1	1	1	14								
EQUIVALENT LENGTH	195	145	170	175	200	185	0	0	0	0	0	0	0	0	145								
TOTAL EFFECTIVE LH	258	197	222	227	246	208	1	1	1	1	1	1	1	1	159								
ADJUSTED PRESSURE	0.06	0.08	0.07	0.07	0.06	0.07	14.80	14.80	14.80	14.80	14.80	14.80	14.80	14.80	0.09								
ROUND DUCT SIZE	7.5	7.5	7.5	5.9	7.5	9.6	0	0	0	0	0	0	0	0	7.7								
INLET GRILL SIZE	8	8	8	8	8	8	0	0	0	0	0	0	0	0	8								
	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X								
INLET GRILL SIZE	14	14	14	14	14	30	0	0	0	0	0	0	0	0	24								

TYPE: JUNIPER 7
SITE NAME: LECCO RIDGE

LO # 71352

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES		9.32.3.1(1)
a) <input checked="" type="checkbox"/>	Direct vent (sealed combustion) only	
b) <input type="checkbox"/>	Positive venting induced draft (except fireplaces)	
c) <input type="checkbox"/>	Natural draft, B-vent or induced draft gas fireplace	
d) <input type="checkbox"/>	Solid Fuel (including fireplaces)	
e) <input type="checkbox"/>	No Combustion Appliances	

HEATING SYSTEM	
<input checked="" type="checkbox"/>	Forced Air
<input type="checkbox"/>	Non Forced Air
<input type="checkbox"/>	Electric Space Heat

HOUSE TYPE		9.32.1(2)
<input checked="" type="checkbox"/>	I Type a) or b) appliance only, no solid fuel	
<input type="checkbox"/>	II Type I except with solid fuel (including fireplaces)	
<input type="checkbox"/>	III Any Type c) appliance	
<input type="checkbox"/>	IV Type I, or II with electric space heat	
<input type="checkbox"/>	Other: Type I, II or IV no forced air	

SYSTEM DESIGN OPTIONS		O.N.H.W.P.
<input type="checkbox"/>	1 Exhaust only/Forced Air System	
<input type="checkbox"/>	2 HRV with Ducting/Forced Air System	
<input checked="" type="checkbox"/>	3 HRV Simplified/connected to forced air system	
<input type="checkbox"/>	4 HRV with Ducting/non forced air system	
<input type="checkbox"/>	Part 6 Design	

TOTAL VENTILATION CAPACITY					9.32.3.3(1)
Basement + Master Bedroom	2	@ 21.2 cfm	42.4	cfm	
Other Bedrooms	3	@ 10.6 cfm	31.8	cfm	
Kitchen & Bathrooms	5	@ 10.6 cfm	53	cfm	
Other Rooms	6	@ 10.6 cfm	63.6	cfm	
Table 9.32.3.A. TOTAL				190.8	cfm

PRINCIPAL VENTILATION CAPACITY REQUIRED				9.32.3.4.(1)
1	Bedroom	31.8	cfm	
2	Bedroom	47.7	cfm	
3	Bedroom	63.6	cfm	
4	Bedroom	79.5	cfm	
5	Bedroom	95.4	cfm	
More than 5 - Part 6		TOTAL	79.5	cfm

SUPPLEMENTAL VENTILATION CAPACITY			9.32.3.5.
Total Ventilation Capacity	190.8	cfm	
Less Principal Ventil. Capacity	86	cfm	
Required Supplemental Capacity	104.8	cfm	

PRINCIPAL EXHAUST FAN CAPACITY			
Model:	VANEE 40H+	Location:	BSMT
86.0	cfm	3.0	sones
			<input checked="" type="checkbox"/> HVI Approved

PRINCIPAL EXHAUST HEAT LOSS CALCULATION					
CFM	ΔT °F	FACTOR	% LOSS		
86.0 CFM	X	72 F	X	1.08	X
					0.35

SUPPLEMENTAL FANS		NUTONE		
Location	Model	cfm	HVI	Sones
ENS	QTXEN050C	50	<input checked="" type="checkbox"/>	0.3
BATH	QTXEN050C	50	<input checked="" type="checkbox"/>	0.3
ENS-2	QTXEN050C	50	<input checked="" type="checkbox"/>	0.3
W/R	QTXEN050C	50	<input checked="" type="checkbox"/>	0.3

HEAT RECOVERY VENTILATOR				9.32.3.11.
Model:	VANEE 40H+			
86	cfm high	37	cfm low	
65	% Sensible Efficiency			
@ 32 deg F (0 deg C)				<input checked="" type="checkbox"/> HVI Approved

LOCATION OF INSTALLATION	
Lot:	
Township	
Address	
Roll #	

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BUILDER:		TOWN OF MILTON	
Name:	GF	PLANNING AND DEVELOPMENT	JUNIPER 7 MODEL
Address:		BUILDING: REVIEWED	
City:		SCOTT SHERRIFFS	APR 7, 2017
Telephone #:		PLANS EXAMINER	DATE

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INSTALLING CONTRACTOR	
Name:	
Address:	
City:	
Telephone #:	Fax #:

DESIGNER CERTIFICATION	
I hereby certify that this ventilation system has been designed in accordance with the Ontario Building Code.	
Name:	HVAC Designs Ltd.
Signature:	<i>Michael O'Rourke</i>
HRAI #	001820
Date:	December-16

HEAT LOSS AND GAIN SUMMARY SHEET

MODEL: JUNIPER 7

BUILDER: GREENPARK HOMES

SFQT: 3113

LO# 71352

SITE: LECCO RIDGE

DESIGN ASSUMPTIONS

HEATING	°F	COOLING	°F
OUTDOOR DESIGN TEMP.	0	OUTDOOR DESIGN TEMP.	86
INDOOR DESIGN TEMP.	72	INDOOR DESIGN TEMP. (MAX 75°F)	72

BUILDING DATA

ATTACHMENT:	DETACHED	# OF STORIES (+BASEMENT):	3
FRONT FACES:	EAST	ASSUMED (Y/N):	Y
AIR CHANGES PER HOUR:	3.57	ASSUMED (Y/N):	Y
AIR TIGHTNESS CATEGORY:	AVERAGE	ASSUMED (Y/N):	Y
WIND EXPOSURE:	SHELTERED	ASSUMED (Y/N):	Y
HOUSE VOLUME (ft³):	42801.0	ASSUMED (Y/N):	Y
INTERNAL SHADING:	BLINDS/CURTAINS	ASSUMED OCCUPANTS:	5
INTERIOR LIGHTING LOAD (Btu/h/ft²):	1.40	DC BRUSHLESS MOTOR (Y/N):	Y
FOUNDATION CONFIGURATION	BCIN_1	DEPTH BELOW GRADE:	6.5 ft
LENGTH: 51.0 ft	WIDTH: 39.0 ft	EXPOSED PERIMETER:	180.0 ft

2012 OBC - COMPLIANCE PACKAGE

Component	Compliance Package ENERGYSTAR
Ceiling with Attic Space Minimum RSI (R)-Value	50
Ceiling Without Attic Space Minimum RSI (R)-Value	31
Exposed Floor Minimum RSI (R)-Value	31
Walls Above Grade Minimum RSI (R)-Value	20 + 5
Basement Walls Minimum RSI (R)-Value	20
Below Grade Slab Entire surface > 600 mm below grade Minimum RSI (R)-Value	-
Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value	10
Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value	10
Windows and Sliding Glass Doors Maximum U-Value	ZONE 2
Skylights Maximum U-Value	ZONE 2
Space Heating Equipment Minimum AFUE	0.95
HRV Minimum Efficiency	65%
Domestic Hot Water Heater Minimum EF	90% TE

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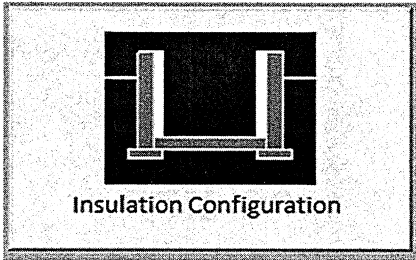
INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE



Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description		
Province:	Ontario	
Region:	Milton	
Site Description		
Soil Conductivity:	Normal conductivity: dry sand, loam, clay	
Water Table:	Normal (7-10 m, 23-33 ft)	
Foundation Dimensions		
Floor Length (m):	15.5	 Insulation Configuration
Floor Width (m):	11.9	
Exposed Perimeter (m):	0.0	
Wall Height (m):	2.9	
Depth Below Grade (m):	2.0	
Window Area (m ²):	0.8	
Door Area (m ²):	1.9	
Radiant Slab		
Heated Fraction of the Slab:	0	
Fluid Temperature (°C):	33	
Design Months		
Heating Month	1	
Foundation Loads		
Heating Load (Watts):	1797	

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Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

Weather Station Description				
Province:	Ontario			
Region:	Milton			
Weather Station Location:	Open flat terrain, grass			
Anemometer height (m):	10			
Local Shielding				
Building Site:	Suburban, forest			
Walls:	Heavy			
Flue:	Heavy			
Highest Ceiling Height (m):	6.71			
Building Configuration				
Type:	Detached			
Number of Stories:	Two			
Foundation:	Full			
House Volume (m ³):	1212.0			
Air Leakage/Ventilation				
Air Tightness Type:	Present (1961-) (3.57 ACH)			
Custom BDT Data:	ELA @ 10 Pa.	1615.6 cm ²		
	3.57	ACH @ 50 Pa		
Mechanical Ventilation (L/s):	Total Supply	Total Exhaust		
	40.6	40.6		
Flue Size				
Flue #:	#1	#2	#3	#4
Diameter (mm):	0	0	0	0
Natural Infiltration Rates				
Heating Air Leakage Rate (ACH/H):	0.307			
Cooling Air Leakage Rate (ACH/H):	0.105			

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BUILDING DIVISION



TOWN OF MILTON
PLANNING AND DEVELOPMENT
JUNIPER 7 MODEL

BUILDING: REVIEWED

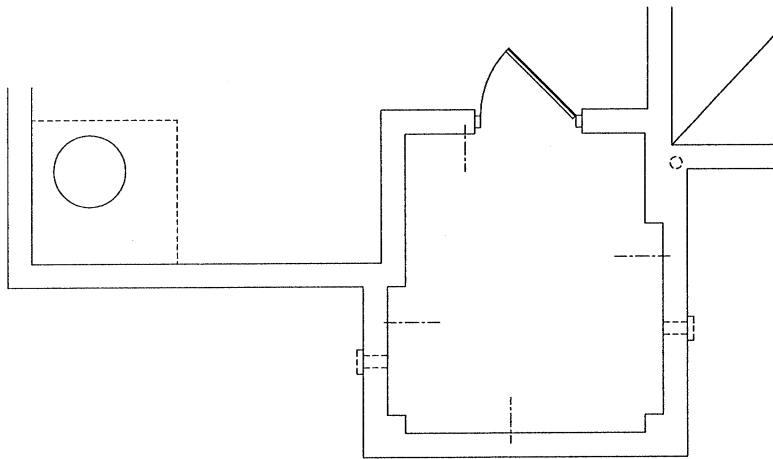
SCOTT SHERRIFFS

APR 7, 2017

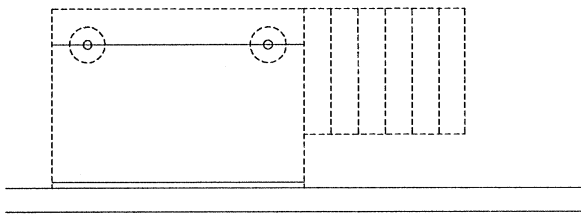
PLANS EXAMINER

DATE

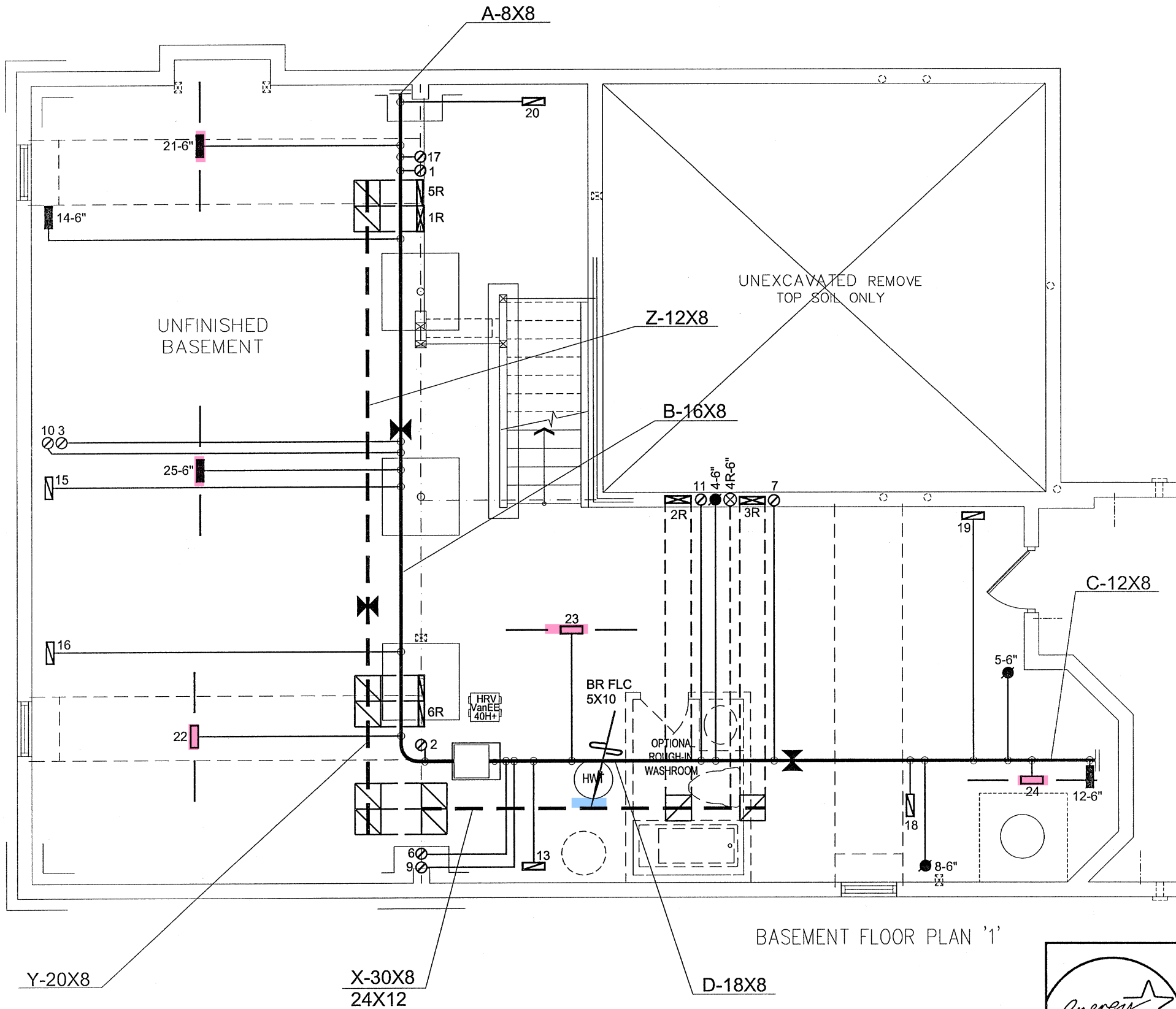
Neither the issuance of a permit nor carrying out of inspections by the Town of Milton relieves the owner from full responsibility for compliance with the provisions of the Ontario Building Code Act and the Ontario Building Code, both as amended, as well as other applicable statutes and regulations of the Province of Ontario, By-laws of the Region of Halton and Town of Milton



BASEMENT FLOOR PLAN '2' & '3'

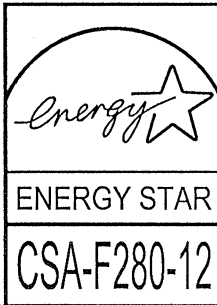


FLOOR PLAN FOR DECK
CONDITION



I MICHAEL O'ROURKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C.3.2.5 OF THE BUILDING CODE.
Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

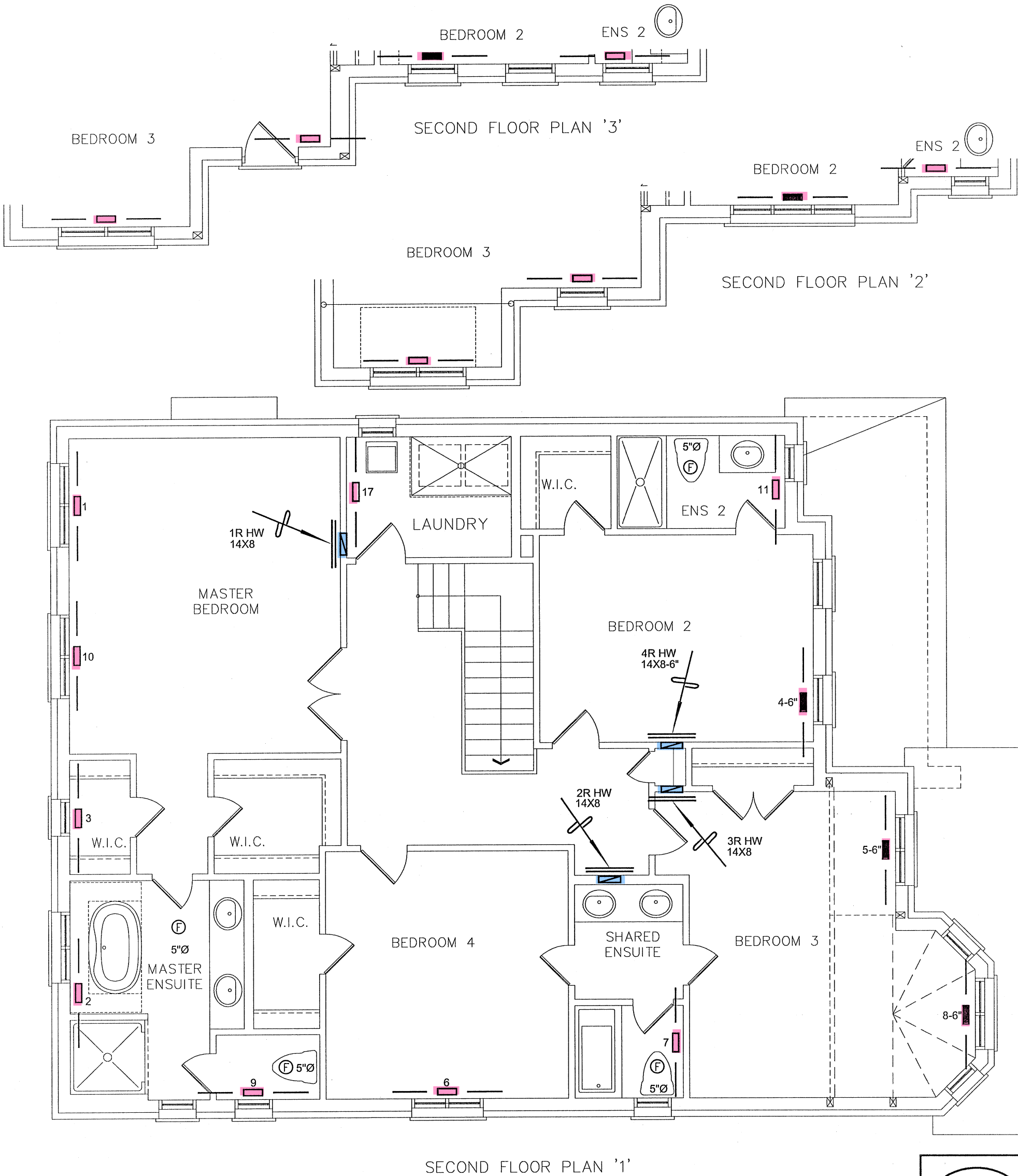
RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 7
BUILDING DIVISION



HVAC LEGEND								3.		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	2.		
	FLOOR SUPPLY AIR GRILLE		6" SUPPLY AIR BOOT ABOVE		14"x8" RETURN AIR GRILLE		RETURN AIR STACK ABOVE	1.		
	FLOOR SUPPLY AIR GRILLE 6" BOOT		SUPPLY AIR STACK FROM 2nd FLOOR		30"x8" RETURN AIR GRILLE		RETURN AIR STACK 2nd FLOOR	No.	Description	Date
	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	REVISIONS		

ALL DRAWINGS, CALCULATIONS AND SPECIFICATIONS ARE THE PROPERTY OF HVAC DESIGNS LTD.© AND MAY NOT BE REPRODUCED, MODIFIED OR ALTERED WITHOUT EXPRESSED WRITTEN CONSENT. THE DRAWINGS ARE DATED AND USE OF THESE DRAWINGS AFTER ONE YEAR FROM THE DATED NOTED IS NOT AUTHORIZED. CONTRACTOR SHALL CHECK ALL CONDITIONS BEFORE PROCEEDING WITH WORK. LATEST MUNICIPAL APPROVED DRAWINGS ONLY TO BE USED DURING INSTALLATION OF HEATING SYSTEM. HVAC DESIGNS LTD. IS NOT LIABLE FOR ANY CLAIMS ARISING FROM UNAUTHORIZED USE OF THE DRAWINGS OR FROM ANY CHANGES TO ACCEPTED STANDARDS AND/OR THE ONTARIO BUILDING CODE.

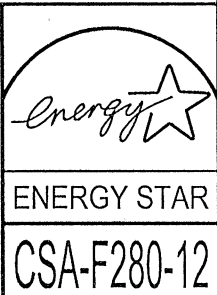
Client GREENPARK HOMES		<div></div> <div>375 Finley Ave - Suite 202 - Ajax, Ontario L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375 Email: info@hvacdesigns.ca Web: www.hvacdesigns.ca Specializing in Residential Mechanical Design Services</div>	HEAT LOSS 49586 BTU/H UNIT DATA		# OF RUNS S/A R/A FANS			Sheet Title BASEMENT HEATING LAYOUT	
Project Name LECCO RIDGE MILTON, ONTARIO			MAKE AMANA		3RD FLOOR				
			MODEL AMVC960804CNA		2ND FLOOR				
			INPUT 80 MBTU/H		1ST FLOOR				
			OUTPUT 76.8 MBTU/H		BASEMENT				
JUNIPER 7 3113 sqft		COOLING 3.5 TONS		ALL S/A DIFFUSERS 4"x10" UNLESS NOTED OTHERWISE ON LAYOUT. ALL S/A RUNS 5"Ø UNLESS NOTED OTHERWISE ON LAYOUT. UNDERCUT DOORS 1" min. FOR R/A			Date DEC/2016		
		FAN SPEED 1316 cfm @ 0.5" w.c.					Scale 3/16" = 1'-0"		
		Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or unheated spaces shall be adequately insulated and be gas-proofed.					BCIN# 19669		
					LO# 71352				



I MICHAEL O'Rourke HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

Michael O'Rourke
Michael O'Rourke, BCIN# 19669
HVAC DESIGNS LTD.

RECEIVED
TOWN OF MILTON
MAR 29, 2017
JUNIPER 7
BUILDING DIVISION



HVAC LEGEND								REVISIONS		
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	No.	Description	Date
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	SUPPLY AIR BOOT ABOVE		6" SUPPLY AIR STACK 2nd FLOOR		FRA- FLOOR RETURN AIR GRILLE		REDUCER	1.		

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Client
GREENPARK HOMES

Project Name
LECCO RIDGE
MILTON, ONTARIO

JUNIPER 7 3113 sqft

375 Finley Ave - Suite 202 - Ajax, Ontario
L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375
Email: info@hvacdsgns.ca
Web: www.hvacdsgns.ca

Specializing in Residential Mechanical Design Services

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PLANNING AND DEVELOPMENT
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Sheet Title
SECOND FLOOR
HEATING
LAYOUT

Date DEC/2016

Scale 3/16" = 1'-0"

BCIN# 19669

LO# 71352